

On the physical principles of...

31762  
S/519/60/000/008/006/031  
D051/D113

reads as follows: A. Imamura, On the earth-vibrations induced in some localities at the arrival of seismic waves. Bull. Earthq. Res. Inst., Tokyo, no. 7, 1929.

ASSOCIATION: Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth of the AS USSR)

Card 4/4

REZANOV, I.A.; RASTVOROVA, V.A.; LEONOV, N.N.; Prinimali uchastiye:  
ANDREYEV, S.S.; GAL'PERIN, Ye.I.; DONABEDOV, A.T.; KATS, A.Z.;  
KOSMINSKAYA, I.P.; LEONOV, N.N.; MASARSKIY, S.I.; MEDVEDEV,  
S.V.; PETRUSHEVSKIY, B.A.; PUCHKOV, S.V.; RASTVOROVA, V.A.;  
REZANOV, I.A.; SAVARENISKIY, Ye.F.; KHARIN, D.A.; Red karty:  
GAMBURTSEV, G.A.

Establishment of detailed seismic regions as exemplified by  
a region of western Turkmenistan. Biul. Sov. po seism. no.8:  
131-141 '60. / (MIRA 13:10)

1. Institut fiziki Zemli AN SSSR.  
(Turkmenistan--Seismology)

S/619/61/000/016/001/005  
D055/D114

AUTHOR: Kats, A.Z.

TITLE: Seismic micro-zoning on the basis of soil differentiation according to deformations caused by the passing of seismic waves.

SOURCE: Akademiya nauk SSSR. Institut fiziki Zemli. Trudy, no. 16(183), Moscow, 1961. Voprosy inzhenernoi seismologii, no. 4, 20-31

TEXT: The article describes a method of determining the intensity of an earthquake in relation to dynamic deformations of the ground. Theoretical methods are discussed first. The author assumes that the ratio of deformation to the increase in intensity alters in a geometrical progression with a denominator of 2.5. The formula

$$x_0 = \frac{\lg y}{\lg 2.5} , \quad 2 \quad (6)$$

where  $x$  is the increase in intensity;  $y = \frac{a_1}{a_2}$ ,  $a_1$  is the propagation rate of longitudinal waves in the ground taken as the standard,  $a_2$  - the propagation

Card 1/3

S/619/61/000/016/001/005  
D055/D114

Seismic micro-zoning ...

rate of longitudinal waves in the ground which is compared, was used to estimate the increase of intensity in the ground in the region of Makhachkala and Kaspiysk, where the thickness of the upper strata is slight as compared with the length of the seismic waves. The results of these calculations show that if a sand-clay soil is taken as the standard and given an average rate of 500 m/sec, i.e. intensity 7, the variation in intensity for a large variety of ground conditions will be  $\pm 1$  degree. For clay soils, sandstone or limestone, intensity may fall by 2-3 degrees. A comparison of these figures with data for intensity variations in different types of soil, according to macroseismic research material, concerning the results of destructive earthquakes, shows a good measure of agreement. To determine intensity increase in strata of great thickness, the difference in fluctuations of intensity increases, which may be read off from ordinates of the soil's spectral characteristics constructed in a logarithmic scale, is added to the intensity increase as determined from formula 6. For the micro-zoning of towns and building sites, the author recommends that a geological-engineering map of the area be compiled to a scale of 1 : 5000. The rate of seismic waves is then measured, the effect being reproduced by the dropping of a steel ball from a certain height, and the data are entered on the map.

Card 2/3

Seismic micro-zoning ...

S/619/61/000/016/001/005  
D055/D114

The spectral characteristics of the soil are studied with one or several pairs of auxiliary seismic stations. One station of each pair is set up on outcrops of indigenous rock, the other on soil which is most characteristic for the given region, with 1 km between them. The increase in intensity of earth tremors may now be determined. Four examples of numerical calculations are given. The initial seismic intensity of the ground which is taken as standard is established according to the map of seismic zones of the USSR. For a region where three- and four-story brick buildings and wooden buildings of several stories predominate, the period to which initial seismic activity is related is between 0.3 and 0.5 sec. With periods of this duration, an alteration in intensity of  $\pm 1$  degree, in round figures, may occur. The names of researchers V.A. Bykhovskiy, A.G. Nazarov, S.V. Medvedev, V.K. Karapetyan and Sh.G. Napetvaridze are mentioned. There are 6 tables, 2 figures and 10 Soviet references.

Card 3/3

S/169/62/000/003/006/098  
D228/D301

AUTHOR: Kats, A. Z.

TITLE: Instrumental study of dynamic ground deformations

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1962, 13, abstract 3A120 (Tr. In-ta fiz. Zemli, AN SSSR, no. 17 /1847, 1961, 3-12)

TEXT: The results of experimental work on deformation measurements in different kinds of ground during the passage of seismic waves are stated. Tensometers and seismographs were placed along a profile. Ground vibrations were stimulated by the shock of a falling weight. The total and the remanent deformation, the displacement, the velocity, the oscillatory movement acceleration, and the velocity of propagation of longitudinal waves in the upper layer were determined. The amount of kinetic energy imparted to the ground was calculated. It was established that the kinematic elements of movement in different types of ground at the same energy level for the source differ much less than is the case with the

Card 1/2

Instrumental study of ...

S/169/62/000/003/006/098  
D228/D301

deformation. In weak ground the remanent deformation grows as the moisture content increases. Formulas are adduced for estimating the displacements and deformations in relation to the distance. The calculation gave a satisfactory convergence with the experiment; this allowed the magnitude of the displacements and deformations in the epicentral zone during earthquakes to be estimated. It is concluded that a more complete classification of ground for seismic microzoning purposes may be obtained if their dynamic deformations are taken into account. *[Abstracter's note: Complete translation.]*

Card 2/2

KATS, A. Z.

Estimation of the dynamic pressures on ground caused by seismic  
vibrations of a rigid structure. Trudy Inst. fiz. Zem. no.22.  
Vop. inzh. seism. no.7:105-111 '62. (MIRA 15:10)

(Earthquakes and building) (Seismology)

MEDVEDEV, S. V.; BUNE, V. I.; GZELISHVILI, I. A.; KARAPETYAN, B. K.;  
KATS, A. Z.; LYAMZINA, G. A.; PIRUZYAN, S. A.; POPOV, V. V.;  
SAMKOV, B. N.; SHAGINYAN, S. A.

Instructions on conducting seismic microzoning. Trudy Inst. fiz.  
Zem. no.22. Vop. inzh. seism. no.7:112-122 '62.  
(MIRA 15:10)

(Seismology)

KATS, A. Z.

Determining dynamic pressures on the ground during seismic  
vibrations of a rigid structure. Biul. Sov. po seism. no.14:  
63-68 '63. (MIRA 16:4)

(Earthquakes and building)

KATS, A.Z.

Method of calculating the distance between seismic centers  
in seismic microzoning. Trudy Inst. fiz. Zem. 28 Vop. inzh.  
seism. no.8:95-103 '63. (MIRA 16:11)

KATS, A.Z.

Dynamic pressure on the bottom of rigid structures caused by  
the effect of a succession of non-stationary seismic waves of  
various duration. Trudy Inst. fiz. Zem. no.33. Vop. inzh. seism.  
no.9:25-43 '64. (MIRA 17:12)

L-24857-65 ENT(1)/EWATCH GW

SOURCE CODE: UR/2619/65/000/036/0094/0098

ACC NR: AT6007199

20  
B71

AUTHOR: Kats, A. Z.

ORG: Institute of Physics of the Earth, Academy of Sciences, SSSR (Institut fiziki Zemli Akademii nauk SSSR)

TITLE: Taking account of hypocentral distances in seismic microzoning when the reference stations are located on a sedimentary stratum

SOURCE: AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seismicheskoye mikrorayonirovaniye; voprosy inzhenernoy seismologii (Seismic microdistricting: problems of engineering seismology), no. 10, 94-98

TOPIC TAGS: seismology, earthquake, seismic wave, seismic station

ABSTRACT: The paper is a continuation of a previous article by the author in which a method was proposed for determining the hypocentral distances of seismic stations assuming the medium to be an elastic half-space. In the present paper it is assumed that the seismic reference stations are located on an extremely thick sedimentary layer. It is also assumed that the waves radiated from the earthquake source have a

Card 1/2

L 24837-55

ACC NR: AT6007199

spherical front and that the hypocentral distances are greater than a wavelength. Analytical formulas are derived to account for the effect of a layer of sedimentary rocks as well as the energy and depth of the focus. It is found that the nature of the attenuation in amplitudes with distance depends on the boundary conditions at the free surface and the lower interface of the sedimentary stratum. Practical graphs are given for the reduction in amplitudes with distance and the method for using them is discussed. Orig. art. has: 5 figures, 10 formulas.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 005/ OTH REF: 000

Card 2/2 3do

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3

KATS, B. A.

DECEASED

1963/3

CHEMISTRY

(196?)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3"

SMIRNOV, M.V., kand.tekhn.nauk; KATS, B.A.; inzh.; NIKITIN, V.S., inzh.

Testing of insulation between the turns of the armature winding  
in d.c. machines. Vest. elektroprom. 33 no.9:70-72 S '62.  
(MIRA 15:10)

(Electric machinery—Windings)

TITLE: Eccentricity of the commutator in DC machines

ABSTRACT: The variation of the actual shape of the commutator surface with

deformations in various parts of the machine at high speed. On the basis of the results obtained, the eccentricity of the commutator in DC machines (the TS, frame sizes C and

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CIA-RDP86-00513R000721120014-3"

BREZINSKIY, Vladimir Georgiyevich, mladshiy nauchnyy sotrudnik;  
KATS, Benya Borisovich, starshiy inzhener; NAMITOKOV, Kemal' Kadyrovich

Effect of the resistance of the brush contact on the  
commutation of enclosed d.c. machinery with organosilicon  
insulation. Izv. vys. ucheb. zav.; elektromekh. 3 no.9:138-142  
'60. (MIRA 15:5)

1. Khar'kovskiy nauchno-issledovatel'skiy institut elektrotekhniki  
(for Brezinskiy), Kats). 2. Lukovoditel' laboratorii ~~MEI~~  
~~Khar'kovskogo nauchno-issledovatel'skogo instituta elektrotekhniki~~  
(for Namitokov).  
(Electric machinery--Direct current)

KATS, B.G.

The 1 K62A-type automatic universal screw-cutting lathe. Biul.tekh.-  
ekon.inform. no.5:14-16 '58. (MIRA 11:7)  
(Screw-cutting machines)

KATS, B.G.

The 1K62M-type program-controlled lathe. Biul. tekhn. ekon. inform.  
no.9:27-29 '59. (MIRA 13:3)  
(Lathes--Numerical control)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3

KATS, B.O.

The 1S62-type lathe. Biul.tekh.-ekon.inform. no.12:20-22 '58.  
(MIRA 11:12)  
(Lathes)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3"

KATS, B.G.

The 1272-type vertical six-spindle automatic lathe. Biul.tekh.-  
ekon.inform. no.1:24-25 '59. (MIRA 12:2)  
(Lathes)

RODIONOV, Yevgeniy Pavlovich; KATS, B.G., nauchnyy red.; ROMANOV, B.V.,  
red.; PERSON, M.N., tekhn.red.

[Lathes; album] Tokarnye stanki; al'bom. Moskva, Vses.uchebno-  
pedagog.izd-vo Proftekhdat, 1960. 105 p.

(MIRA 14:4)

(Lathes)

ZHUKOV, K. S.; KATS, B. I.

Sugar Industry

Nomograms for controlling defecation and preliminary defecation with return of insufficiently carbonated juice of the first saturation. Sakh. prom 26 no. 9, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

KATS, B.I.

Calculating the defecator. Sakh.prom. 32 no.9:17-18 S '58.  
(MIRA 11:11)

1. Malo-Viskovskiy sakharannyy zavod.  
(Sugar machinery)

KATS, B.I.

Modifications of standards of diffusion batteries. Sakharnaya Prom.  
26 no.12:23-4 '52. (MLRA 5:11)  
(CA 47 no.13:6190)

KATS, B.I., LOPUSHANSKIY, A.I., SIVER, P.YA., YUKHIMETS, A.D.,  
ZHILA, YE.S., ZAMANSKIY, L.N., KAPRALOVA, YE.S. (USSR)

"Some Data on the Biochemistry of the Enhancement  
of Regeneration."

Report presented at the 5th Int'l. Biochemistry Congress,  
Moscow, 10-16 Aug 1961

BARTASHEV, L.V.; KATS, B.I., inzh., retsenzent; PETRENKO, O.S., inzh.,  
retsenzent; LYUBOVICH, Yu.O., kand. ekonom. nauk, red.;  
ZUBKO, L.T., tekhn. red.

[Organization of intershop conveying] Organizatsiia vnutri-  
tsekhovogo transporta. Moskva, Mashgiz, 1950. 98 p.  
(MIRA 15:3)

(Machinery industry--Equipment and supplies)  
(Conveying machinery)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3

KATS, B.T.; KLESHCHEVNIKOVA, V.P.

Diagnosis and treatment of leiomyoma of the esophagus. Vop. onk.  
7 no.1:3-8 '61. (MIRA 14:2)  
(ESOPHAGUS--TUMORS)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721120014-3"

*KATS, B.Ya.*

Case of anaphylactoid purpura with unusual hemorrhages. Sov.med.  
21 Supplement:19 '57. (MIRA 11:2)

1. Iz Molotovskoy rayonnoy bol'nitsy Lipetskoy oblasti.  
(PURPURA (PATHOLOGY)) (HEMORRHAGE)

KATS, B.Ya.

Clinical aspects, laboratory diagnosis and treatment of  
hepatitis resulting from chronic exposure to styrene.  
Trudy Vor. med. inst. 47:76-79 '62 (MIRA 16:12)

1. Profpatologicheskoye otdeleniye 3-y klinicheskoy bol'niitsy  
g. Voronezha.

KATS, B. Ya.; PAVLENKO, A.M.

Diseases of workers exposed to styrene. Trudy Vor. med. inst.  
47:73-75 '62 (MIRA 16:12)

1. Profpatologicheskoye otdeleniye 3-y klinicheskoy bol'-nitsy g. Voronezha i Mediko-sanitarnaya chast' zavoda sinteticheskogo kauchuka im. S.M.Kirova.

Country : USSR  
Category : Soil Science. Cultivation. Improvement.  
Erosion. J

Abs Jour : RZhBiol., No 6, 1959, No 24678

Author : Kats, D.

Inst : ~~Institute~~

Title : Utilization of Soil Waters for Irrigation in  
the Bukhar Oasis.

Orig Pub : Khlopkovodstvo, 1956, No. 8, 49-51

Abstract : No abstract.

Card : 1/1

65

L 00369-66 EWT(d)/EED-2/EWP(1) IJP(c) BE/GG/GS  
ACCESSION NR: AT5013566 UR/0000/64/000/000/0194/0203

AUTHOR: Kate, D. A., Chernyshev, V. Ye.

4/  
B+1

TITLE: Ferrite pair containing components of the operative memory

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatika, telemekhanika i priborostroyeniye (Automatic control, remote control, and instrument manufacture). Moscow, Izd-vo Nauka, 1964, 194-203

TOPIC TAGS: computer memory, ferrite core memory, digital computer, computer component, memory core

16C, 44

ABSTRACT: The paper investigates basic problems connected with the design of the operative memory (OM) which is one of the most important components of digital computers. The device described in the article is controlled by pulses the amplitude of which is not subjected to limitation. Extensive theoretical and experimental analyses of the operation of ferrite pairs were carried out by the present authors in order to select the correct magnitude of the single controllable ferrite pair parameter (the coupling loop resistance), and to determine the optimum parameters of the pulses involved. The analysis, the results of which are presented in the present paper, followed the methodology outlined else-

Card 1/2

L 00369-66

ACCESSION NR: AT5013568

where by (V. V. Bardizh Sb. Magnitnyye elementy ustroystv vychislitel'noy tekhniki,  
AN SSSR, M., 1961). Orig. art. has: 9 formulas and 6 figures.

ASSOCIATION: None

SUBMITTED: 24Oct64

ENCL: 00

SUB CODE: DP

NO REF SOV: 002

OTHER: 000

Cord

2/2

L 42187-66 EWT(d)/EMP(1)

IJP(c) BB/GS/GD

ACC NR: AT6008928

SOURCE CODE: UR/0000/65/000/000/0125/0130

AUTHOR: Ambrosovich, V. D.; Kats, D. A.; Chernyshev, V. Ye.

47  
B+1

ORG: none

TITLE: Nonvolatile <sup>160</sup> storage with four-coordinate access

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 125-130

TOPIC TAGS: computer storage device, digital decoder, digital computer

ABSTRACT: Methods are considered for simplifying the nonvolatile-storage (up to 10000 numbers) decoders used in digital computers. When the storage capacity exceeds 1000 numbers, four control coordinates and square-loop ferrites become necessary. The simplest 4-coordinate circuit would have too many simultaneous

Card 1/2

L 42187-66

ACC NR: AT6008928

ferrite reversals and too high a noise. Hence, a more complicated circuit is suggested which uses 6 decoders for switching 3 control pulses. Before the access, all ferrites are reversed uniformly ("down") by an arbitrary pulse. The address is introduced in all 6 decoders. Further operations exclude the effect of noise on the storage functioning. In this system, the number of outputs of one decoder is equal to the 4th root of the number of addresses. Orig. art. has: 3 figures.

SUB CODE: 09 / SUBM DATE: 14Jul65

Card 2/2 1716P

ESIBYAN, M.A.; TER-KRIKORYAN, S.B.; SHAKHNAZAROV, D.O., redaktor; KATS, D.I.,  
redaktor; UDALYY, A.M., tekhnicheskiy redaktor

[Repair of electric equipment in petroleum industry] Remont nefte-  
promyslowogo elektrooborudovaniia. Baku, Gos.nauchno-tekhn.izd-vo  
neftianoi i gorno-toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1948.  
222 p. [Microfilm]  
(Petroleum industry--Equipment and supplies)

(MLRA 9:3)

KATS, D. M. (Co-author)

See: LEGOSTAYEV, V. M.

Kats, D. M. and Legostayev, V. M. "The effect of forest planting along the irrigation network upon the cycle of the groundwater level," Doklady Akad. nauk UzSSR, 1948, No. 12, p. 27-33  
-- Summary in Uzbek -- Bibliog: 5 items

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

KATS, D. M.

Kats, D. M. "Question of the cycle of the groundwater level over many years in regions under irrigation," Doklady Akad. nauk UzSSR, 1949, No. 1, p. 23-26 -- Summary in Uzbek

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

KATS, D. M.

36281 Zadachi izhcheniya rezhima gruntovykh vod uzbekistana v svyazi so sluzhboj meliorativnogo kontrolya. Trudy in-ta geologii (Akad. Nauk uzbek. SSR). Vyp. 3, 1949, s. 161-68-Rezyume na uzbek. Yaz.

SO: Ietopis' Zhurnal'nykh Statey, No. 49, 1949

KATS, D. M.

28471

Pyegulirovaniye ryezhima gruntovykh vod. Dalbyerzinskoy styepl doklady Akad. Nauk UZSSR, 1949, No. 7, S. 15-17- ryezymye na uzbyek. Yaz.

SO: LETOPIS No. 34

15-57-5-6883

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,  
p 165 (USSR)

AUTHOR: Kats, D. M.

TITLE: The Magnitude of Fluctuations in the Water Table in  
Regions of Irrigation (Ob amplitude kolebaniy urovnya  
gruntovykh vod v oroshayemykh rayonakh)

PERIODICAL: Tr. Tashkentsk. in-ta inzh. irrigatsii i mekhaniz. s.  
kh., 1956, Nr 2, pp 181-185.

ABSTRACT: In drained irrigation regions, associated with more  
intense volumes of water, the magnitude of seasonal  
fluctuations in the water table varies within wider limits  
than in undrained regions. In undrained regions the  
variation does not generally exceed 3 m to 3.5 m. In  
drained regions this variation may be considerably  
greater. Therefore, when the value of seasonal fluctu-  
ation does not exceed 3.0 m to 3.5 m, it should be  
considered an indicator of the well-known role of sub-  
surface discharge among the discharge elements of

Card 1/2

The Magnitude of Fluctuations in the Water Table (Cont.)

balance. When this discharge increases, other conditions being equal, the magnitude of fluctuation of the water table also increases.

Card 2/2

15-57-5-6883

S. M. Yu.

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CIA-RDP86-00513R000721120014-3

KATS, D.M.

Hydrogeological classification of irrigated areas of Central Asia.  
Izv.AN Uz.SSR no.6:47-55 '56. (MIRA 14:5)  
(Soviet Central Asia--Irrigation)

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CIA-RDP86-00513R000721120014-3"

15-57-10-14645

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 213 (USSR)

AUTHOR: Kats, D. M.

TITLE: Ground Water Regulation in the Bukhara Oasis (K voprosu  
o regulirovani rezhima gruntovykh vod Bukharskogo  
oazisa)

PERIODICAL: Dokl. AN UzSSR, 1956, Nr 8, pp 33-37

ABSTRACT: Ground waters are very important to soil formation in  
Bukharskaya oblast'. The Bukhara hydroelectric station  
carried out investigations into the relation and range  
of ground waters at the collective farm imeni Kailinin,  
in which loams, sandy soils, and sand are interstrati-  
fied. Here the density of the drainage system is 14.4  
meters per hectare. Ground waters lie at a depth of  
0.1 to 3.5 m. The ground water surface slopes 0.0013--  
0.004. The additive portion in the ground water balance  
comes from atmospheric precipitation, irrigation, and  
ditch waters; the negative from transpiration, evapo-

Card 1/2

15-57-10-14645

Ground Water Regulation in the Bukhara Oasis (Cont.)

ration, and irrigation run-off. Study of the ground water balance shows that it is necessary to decrease the water supply and even to cover the ditches during the non-growing season. How much the level and mineralization of ground waters should be lowered depends on the balance. When it is negative and subterranean run-off is greater than evaporation and transpiration, the optimum ground water level should not be more than 1.2--1.5 m deep, but when evaporation and transpiration are greater than the subterranean run-off, it should be 2.0--2.7 m.

Card 2/2

A. M. Baranovskiy

KATS, D.M.

Evaporation of ground water in the Bukhara oasis. Dokl. AN Uz. SSR  
no. 6:15-17 '57. (MIRA 11:5)

1. Uzbekskaya kruglogodichnaya gidrogeologicheskaya ekspeditsiya.  
Predstavлено членом-корреспондентом АН УзССР Г.А. Мавлияновым.  
(Bukhara Province--Water, Underground)

PLUTITSKIY, N.M.

Underground water balance in the Bukhara oasis. Dokl. AN Uz.  
SSR no.9:23-27 '57. (MIRA 11:5)

1.Uzbekskaya gidrogeologicheskaya ekspeditsiya. Predstavleno  
chlenom-korrespondentom AN UzSSR R.A. Alimovym.  
(Bukhara province--Water, Underground)

KATS, D.M.: Doc Geolog-Mineralo Sci (diss) -- "The laws of the behavior of ground water and the principles of regulating it in the irrigated regions of Uzbekistan". Moscow, 1958. 40 pp (Min Higher Educ USSR, Moscow State Order of Lenin and Order of Labor Red Banner U imeni M.V. Lomonosov), 150 copies (KL, No 1, 1959, 115)

KATS, D.M.

Basic causes of perennial fluctuations in the level of underground  
waters in irrigated regions. Razved. i okh. nedr 26 no.7:41-47  
Jl '60. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii  
i inzhenernoy geologii.

(Soviet Central Asia--Irrigation)  
(Water, Underground)

KATS, D.M.; KONOPLYANTSEV, A.A.; IVANOVA, A.G., tekhn. red.

[Review of the study of underground water conditions in  
foreign countries] Obzor izuchenia rezhima podzemnykh vod  
za rubezhom. Moskva, M-vo geologii i okhrany nedr SSSR,  
1961. 36 p.  
(Water, Underground)

KATS, D.M.; FOMIN, V.M.

Use of vertical drainage in irrigated territories as exemplified by  
its use in Central Asia. Sov.geol. 4 no.6:8-16 Je '61.  
(MIRA 14:6)

1. Ministerstvo geologii i okhrany nedor SSSR i Vsesoyuznyy nauchno-  
issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.  
(Soviet Central Asia—Drainage)

KATS, D. A. LINOV, I. A.

and hydrogeological problems in connection with the development  
of agriculture. Sov. geol. 4 no.7:6-18 Jl '61.  
(KERA 14:14)

1. Hydrogeology and soil development (Institut hidrogeologii  
i glinokhozyaistva)  
(Water, Underground)  
(Agriculture)

KATS, D.M.

Zonality of the ground waters in the arid regions of Central Asia  
as exemplified by the oases in Bukhara. Biul. MOIP. Otd. geol.  
36 no.2:133-134 Mr-Ap '61. (MIRA 14:?)  
(Bukhara--Water, Underground)

KAT, D.M. [Kats, D.M.]; MARINOV, N.A.

Main problems of hydrogeology in connection with the development  
of agriculture. Analele geol geogr 16 no.2:78-91 Ap-Je '62.

KATS, D.M.

Zoning of underground waters in arid areas of Central Asia. Biul.  
MOIP.Otd.geol. 37 no.2:136-145 Mr-Ap '62. (MIRA 15:7)  
(Soviet Central Asia--Water, Underground)

KATS, D.M., doktor geol.-miner. nauk; ORLOVA, V.P., red.; KOPNINA,  
N.N., tekhn. red.

[Ground water cycle in irrigated areas and its control] Re-  
zhim gruntovykh vod v oroshaemykh raionakh i ego regulirova-  
nie. Moskva, Sel'khozizdat, 1963. 364 p. (MIRA 17:3)

KATS, D.M.; KONOPLYANTSEV, A.A.

Role of the study of the regime of underground waters in solving practical problems. Razved. i okh. nedr 27 no.9:35-42 S '61.

(MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

KATS, D.M.

Hydrogeological regionalization of irrigated lands for drilling  
vertical-drainage wells. Razved. i okh. nedr. 30 no. 8:45-52 Ag  
'64. (GIR 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii  
i inzhenernoy geologii.

KATS, D.M.; PIUTITSKIY, N.M.; KHAVROSHCHENKO, V.K.

Effect of the drainage on the regime of ground waters in the  
Bukhara Oasis. Trudy VSEGINGEO no.10:210-218 '64.

(MIRA 17.10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii  
i inzhenernoy geologii.

KATS, D.N.; MARINOV, N.A.; FOMIN, V.M.

Increasing the tempo of the desalting of irrigated land.  
Razved. i okh. nedr 29 no.10:48-52 O '63.

(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i  
inzhenernoy geologii (for Kats, Marinov). 2. Gosudarstvennyy  
geologicheskiy komitet SSSR (for Fomin).

BOOK,

Call Nr: TT 205.08

AUTHORS: Otdel'nov, P. V., Nikonov, V. A., Sinitzin, I. T.  
Tsogol, A. K., Solov'yev, V. M., Kats, D. Ya., Tkachenko,  
Ye. N., Sdvizhkov, M. Ye.

TITLE: Metalworking and Treatment of Metals in Machine Repair  
(Obrabotka metallov pri remonte mashin)

PUB. DATA: Voyennoye izdatel'stvo Ministerstva oborony Soyuza  
SSR, Moscow 1957, 464 pp.

ORIG. AGENCY: None given

EDITORS: Martynov, A. D., Eng. Col.; Tech. Ed.: Sokolova, G. F.

PURPOSE: This textbook is intended for students of military  
technical schools and can also be used by students  
taking military training courses covering machine  
repair. It was compiled in accordance with the  
program for armored division technical schools.

Call Nr: TT 205.08

Metalworking and Treatment of Metals in Machine Repair (cont)

COVERAGE: This textbook is ;the basis for a practical course in metalworking as required by personnel overhauling and repairing machines. Sketches and diagrams of equipment, reference tables of materials, and methods used in shop measurements, bench work, heat treatment, forging, electroplating, welding and lathework turning are given in great detail. No personalities are mentioned. There are 17 references, all Sov&et.

LEVITSKAYA, S.V.; KATS, E.B.

Thrombocytopenic syndrome in hemangiomas. Probl. gemat. i perel.  
krovi no.5:22-28 '65. (MIRA 18:10)

1. Otdel rannego vozrasta (zav.- prof. S.G. Zvyagintseva)  
kafedry pediatrii (zav.- prof. R.L. Gamburg) TSentral'nogo  
instituta usovershenstvovaniya vrachey, Moskva.

LEVITSKAYA, S.V.; KATS, F.B.

Kasabach-Merrit syndrome in a 2-month-old infant. Trudy TSIU  
78:63-67 '65. (MIRA 18:9)

1. Kafedra pediatrii (zav.- prof. R.I. Gamburg) ISentral'nogo  
instituta usovershenstvovaniya vrachey.

KATS, E.D.

Using an electronic integrator in studying the flow nonuniformity  
of a bed. Razved. i okh. nedr 31 no.2:52-54 F '65.  
(MIRA 18:3)

1. Gidrorezhimnaya ekspeditsiya Vsesoyuznogo nauchno-issledovatel'-  
skogo instituta gidrogeologii i inzhenernoy geologii.

SHAPIRO L.L., inzh; KATS, E.G.; NIKITINA, T.I.; TAYMOVICH, Z.S.

Reorganization of the lower echelon planning of building and  
assembling operations in the "Sevzapmorgidrostoi" Trust. Trudy  
TSNIIS no.34:113-126 '60. (MIRA 13:8)  
(Wages) (Construction industry--Accounting)

KATS, E. I.

"Analysis of the Operation of Multichannel Pulse Systems With Simultaneous Frequency Modulation of the Carrier and Phase Modulation of the Pulses." Cand Tech Sci, Moscow Electrical Engineering Inst of Communications, 11 Feb 54. Dissertation (Vechernyaya Moskva Moscow, 1 Feb 54)

SO: SUM 186, 19 Aug 1954

KATS, E.I., konstruktor

Grinding of rails. Put' i put. khoz. 8 no.6:19-20 '64. (MIRA 17:9)

ACC NR: AT7003186

(A)

SOURCE CODE: UR/2536/66/000/067/0135/0158

AUTHORS: Galkin, M. N. (Doctor of technical sciences, Professor); Kats, E. L.  
(Engineer)

ORG: none

TITLE: Peculiarities of forming thin-walled hermetic castings

SOURCE: Moscow. Aviationsionnyy tekhnologicheskiy institut. Trudy, no. 67, 1966.  
Voprosy proizvodstva otlivok iz aluminiyevykh splavov (Problems of producing aluminum  
alloy castings), 135-158

TOPIC TAGS: metal casting, cooling, porosity, temperature distribution, solid  
solution, aluminum alloy, heat conductivity, grain size/ AL2 aluminum alloy, AL4  
aluminum alloy

ABSTRACT: The characteristics of forming thin-walled hermetic castings are  
examined. The discussion involves the conditions for cooling the melt in the mold,  
the mechanism of micropore formation and its mathematical description, the feed  
elements of the casting, and the temperature and solid-phase distributions in the melt  
when filling the mold. The forming of a two-flange fitting is analyzed. It is found  
that, from the moment of contact, aluminum alloys are cooled relatively slowly in sand  
and in painted metal molds. When this low relative rate is changed by one order of  
magnitude, the microstructure of the casting is changed considerably. The micropores

UDC: 669.714:621.74

Card 1/3

ACC NR: AT7003186

are arranged about the grain boundaries in the form of narrow channels, chiefly along the walls (see Fig. 1).

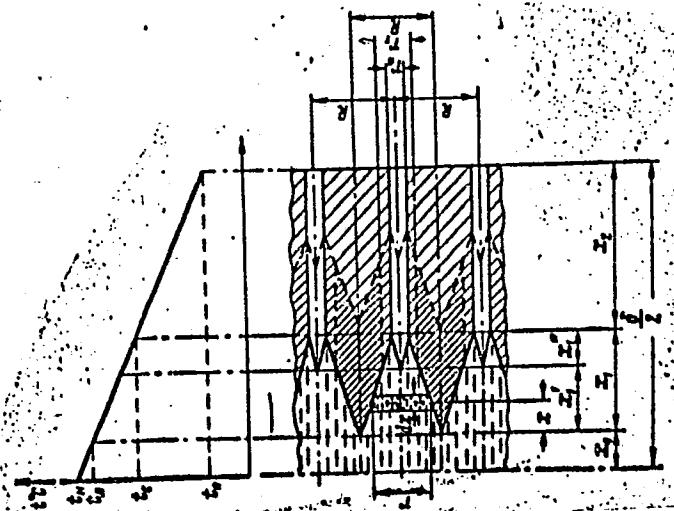


FIG. 1. Diagram of crystallization and formation of micropores in casting solid-solution alloy

Card 2/3

ACC NR: AT7003186

A standard working formula is derived for small values of the relative porosity coefficient as:

$$K = \frac{6\pi\alpha\Delta t}{P_0 \cdot g \cdot R^2 \gamma} \left( 1 + \frac{\alpha_m \Delta t}{q \cdot 2} \right)$$

where  $\Delta t$  is the hardening time;  $\gamma$  - the kinematic modulus of viscosity;  $g$  - the acceleration of gravity;  $\lambda$  - the heat conductivity of the casting material;  $\alpha_m$  - the heat conductivity of the mold;  $\vartheta_m$  - the temperature drop in the mold;  $\varphi$  - the latent heat of solidification;  $R$  - the macrograin size;  $\gamma$  - the density of the melt; and  $P_0$  - pressure. Alloys with a high eutectic content have areas with a flat hardening front. Equations are derived for the temperature field and the solid-phase distribution that make it possible to analyze the forming of a large thin-walled casting from the moment of pouring. Orig. art. has: 18 formulas, 6 photographs, 9 diagrams, and 3 graphs.

SUB CODE: 13/ SUBM DATE: none

111

Card 3/3

KATS, F.; BORTNIK, S.

Results of effective control. Fin.SSSR 20 no.10:69-71  
0 '59. (MIRA 12:12)

1. Nachal'nik otdela gosdokhodov Odesskogo gorfinotdela  
(for Kats). 2. Starshiy inspektor gosdokhodov Odesskogo  
gorfinotdela (for Bortnik)  
(Odessa Province--Finance)

KATS F. A.

RYZHAVSKIY, I.M.; SHEPELEVA, M.D.; KATS, F.A., nauchnyy red.; LEVIN, B.Z.,  
nauchnyy red.; POMEIKO, F.N., nauchnyy red.; STROYEVA, Ye.V.,  
red.; TRUSOV, N.S., tekhn.red.

[Use of hard alloys and cermets; a collection of articles]  
O primenenii tverdykh splavov i mineralokeramiki; sbornik statei.  
Moskva, 1957. 87 p.  
(MIRA 11:6)

1. Moscow. TSentral'nyy institut informatsii tsvetnoy metallurgii.  
(Alloys) (Cermets)

KATS, F.A., referent

New technology for the production of titanium tetrachloride (from  
"Chemical Engineering Progress" no. 7, 1957). Biul. TSIIN tavet.  
mst. ne. 6:40 - 3 of cover '58. (MIRA 11:7)  
(Titanium chlorides)

KATS, F. A., referent

Producing titanium-aluminum alloys by the reduction of titanium dioxide (from "Light Metal Age" 1957). Biul. TSIIN tavet. met. no. 7:39-40 '58. (MIRA 11:7)  
(Titanium-aluminum alloys)

KOGAN, B.I.; NAZVANOVA, V.A.; KATS, F.A., red.; POPLYAKOVSKAYA,  
S.M., red.; LOGINOVа, Ye.I., tekhn. red.

[Possible areas for the use of scandium] Vozmozhnye  
oblasti primeneniia skandiiia. Moskva, 1963. 47 p.

(MIRA 16:11)

l. Moscow. TSentral'nyy institut informatsii tsvetnoy  
metallurgii.

(Scandium)

*R4775, F.I.*  
MANDEL'SHTAM, M.I.; SHNEYDER, G.F.; KUZNETSOVA, Z.V.; KATS, F.I.

New ostracod genera in the families Cyprididae and Cytheridae.  
Ezhegod. Vses. paleont. ob-va 16 '57. (MIRA 11:4)  
(Ostracoda, Fossil)

USSR / Virology. Human and Animal Viruses. Rabies Virus.

E-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 81282

Authors : Volovich, N. I.; Gordiyenko, Ye. G.; Kats, F.M.; Kurilova, M. A.; Khaykina, A. S.

Inst : Not given

Title : Experimental Obtaining and Study of Native and Refined Complex Serums Against Rabies and Tetanus.

Orig Pub : Vopr. virusologii, 1958, No. 1, 23-27.<sup>3</sup>

Abstract : Complex immune sera containing antibodies to rabies virus and tetanus toxin in a considerable titer were obtained by immunizing horses with fixated virus strains and tetanus antitoxin. These sera, and especially gamma-globulin obtained from them, possessed clearly expressed immunogenic properties when introduced at closest periods after infecting animals by fixated strains. -- From the authors' summary.

Card 1/1

*Khai'kov end im. I.I. Mechnikov*

KHAYKINA, A.S.; DUBRAVINA, G.I.; RACHINSKAYA, A.Z.; PETRENKO, M.D.; MITEL'MAN,  
P.M.; KHODOROVA, Z.N.; KATS, F.M.; KISELEV, R.I.; GAYDAMAKA, M.G.;  
VOLOVICH, B.I.; BEKKER, M.L.; GORDIYENKO, Ye.G.; VYSOCHINENKO, Ye.K.;  
TELESHEVSKAYA, M.A.; NAYDEROVA, Yu.T.

Production of the active fraction of hyperimmune horse sera by means  
of the alcohol precipitation method under a low temperature. Nauch.  
osn. proizv. bakt. prep. 10:159-167 '61. (MIRA 18:7)

1. Khar'kovskiy institut vaktsin i syvorotok im. Mechnikova.

VOLOVICH, N.I.; GORDIYENKO, Ye.G.; KATS, F.M.; KURIROVA, M.A.; KHAYKINA, A.S.

Experimental study of native and purified complex sera against  
rabies and tetanus. Nauch. osn. proizv. bakt. prep. 10:244-251  
'61.  
(MIRA 18:7)

1. Khar'kovskiy institut vaktsin i syvorotok im. Mechnikova.

KATS, F. M.

17 (6, 12)

SOV/16-60-4-21/47

## AUTHOR:

Chertkova, P.A., Grodko, N.S., Ushakova, A.A., Denicova, I.Ye., Kats, F.M.  
and Dudarenko, O.V.

## TITLE:

Standard Botulism Antiserum Type E

## PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i imunobiologii, 1960, № 4,  
pp 84 - 87 (USSR)

## ABSTRACT:

The authors made a study of the standard botulism antiserum type E (batch 216/2) prepared at the Khar'kovskiy institut vaktsin i sывороток imeni Mechnikova (Institute of Vaccine and Sera imeni Mechnikov, Khar'kov) and also of two other batches of antiserum - batch 205/1, also prepared by the same institute, and batch 16/3 prepared at the Institut epidemiologii i mikrobiologii imeni Gamalei AHN SSSR (Institute of Epidemiology and Microbiology imeni Gamaleya of the ANS, USSR). A standard for the botulism antiserum type E was worked out and the size of one antitoxic unit (AU) set at 0.03 mg of dry substance. An experimental toxin dose was determined and titration of antisera was recommended at 1/10 of this experimental dose (1/4/10). It was found that the experimental dose of the three batches of toxins prepared on different nutrient media contained different amounts of LD (minimum lethal dose). Two of the three toxin

Card 1/2

## ASSOCIATION:

Gosudarstvennyy kontrolynyy institut meditsinskikh biologicheskikh pr-pa-rator ikoni Tarasevicha (State Control Institute for Medical Biological Preparations ikoni Tarasevicha); Khar'kovskiy institut vaktsin i sывороток imeni Mechnikova (Institute of Vaccines and Sera imeni Mechnikov, Khar'kov)

## SUBMITTED:

September 24, 1968

Card 2/2

VERDEREVSKIY, D.; VOLONTIR, I.; GLAZUNOV, K.; KOLESNIK, L.; LUKASHEVICH,  
P.; MAGER, M.; MALTABAR, L.; ROMANOV, I.; KATS, G., red.;  
BIZYUK, G., red.; MANDELBAUM, M., tekhn.red.

[Manual on viticulture] Kartia vitikultorului. Kishineu, Editura  
de stat a Moldovei, 1957. 398 p. (MIRA 12:10)  
(Viticulture)

GOLOVIN, A.G.; KATS, G. [translator]; ILVITSKI, V., red.; KAPITSA,  
V., tekhn.red.

[San José scale and ways of controlling it] Pedukele kali-  
fornian shi kombateria lui. Kishineu, Editura de stat  
"Kartia Moldoveniaske," 1959. 58 p. (MIRA 13:?)  
(San José scale)

NANI, Mariya Prokop'yevna; KATS, G., red.; TELPIS, V., tekhn. red.

[Obtaining 602 centners of sugar beets per hectare] 602 chentnere  
de sfekle de zaher la khektar. Kishineu, Editura de stat "Karia  
moldoveniaske," 1959. 9 p. (MIRA 14:10)  
(Moldavia—Sugar beets)

PRITULA, Yu.V.; KATS, G., red.; TARAKANOVA, V., tekhn. red.

[Antibiotics in the feeding of farm animals; from the practices of the production and use of antibiotic feed supplements on collective farms in Orgeyev, Teleneshty, and Tiraspol' Districts] Antibiotiki v kormlenii zhivotnykh; iz opyta proizvodstva i primeneniia kormovykh antibiotikov v kolkhozakh Orgeevskogo, Teleneshtskogo i Tiraspol'skogo raionov. Kishinev, Gos. izd-vo "Kartia moldoveniaske," 1960. 14 p. (MIRA 15:3)

(Orgeyev District--Stock and stockbreeding--Feeding and feeds)  
(Teleneshty District--Stock and stockbreeding--Feeding and feeds)  
(Tiraspol' District--Stock and stock breeding--Feeding and feeds)

LYSHKO, G.P.; KATS, G., red.; TEL'PIS, V., tekhn.red.

[Technological progress in agriculture] Tekhnicheskii progress  
v sel'skom khoziaistve. Kishinev, Gos.izd-vo "Kartia moldo-  
veniaske," 1960. 105 p.  
(Agricultural machinery) (MIRA 14:6)

BARBASHOV, A., zasl. zootehnik RSFSR; KATS, G., otv. za vypusk;  
GORYACHENKO, F., tekhn. red.

[Increasing production in swine breeding] Bol'shoi rezerv svino-vodstva. Kishinev, Izd-vo Sel'khoz. lit-ry MSKh MSSR, 1962. 13 p.  
(MIRA 15:6)

1. Direktor eksperimental'nogo khozyaystva Vsesoyuznogo nauchno-issledovatel'skogo instituta zhivotnovodstva, sovkhoza "Klenovo-Chegodayev" Podol'skogo rayona Moskovskoy oblasti (for Barbashov).

(Moldavia—Swine)

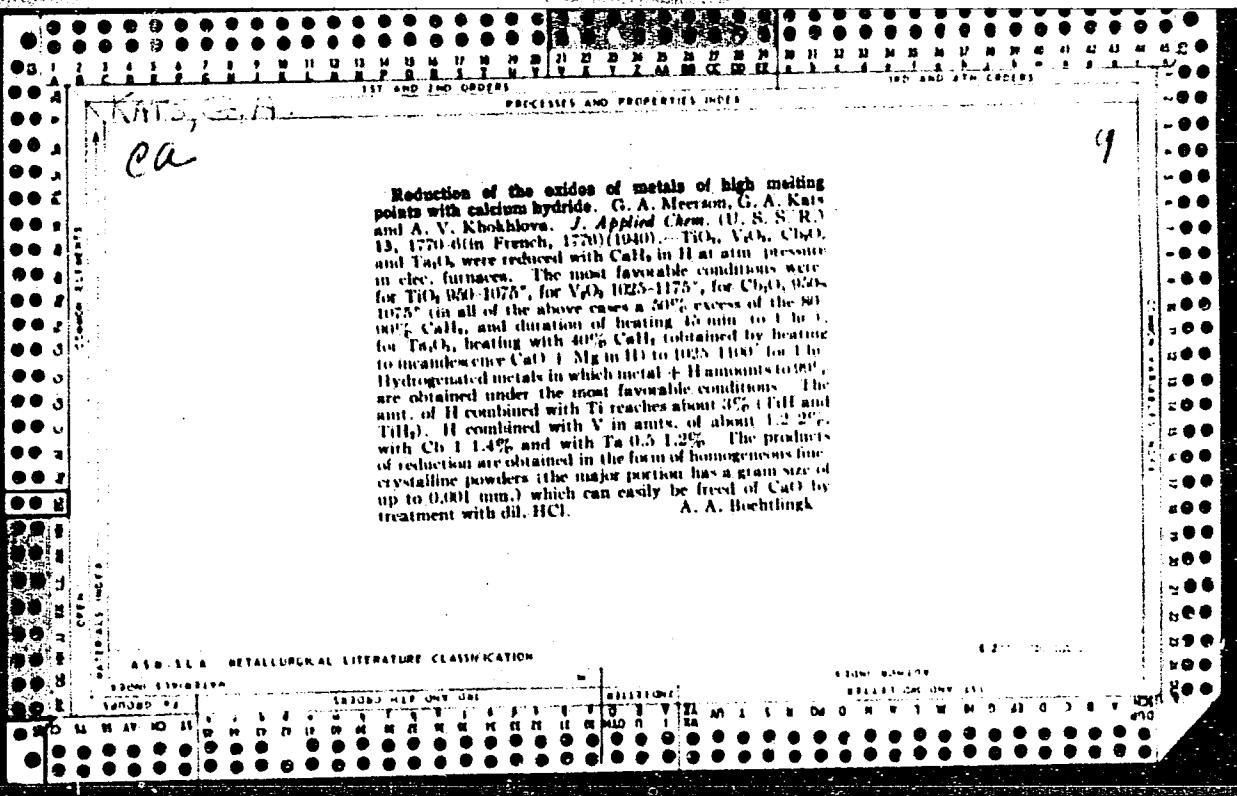
NAGRINYAK, Ye.A.; KATS, G., red.; GORYACHENKO, F., tekhn. red.

[Thirty-seven centners of winter barley per hectare] 37 chentnere  
de orz de toamne la khektar. Kishineu, Editura pentru literatură  
agrikulturii al RSS Moldovenesht', 1962. 11 p. [In Moldavian]  
(MIRA 15:6)

(Moldavia—Barley)

GERASIMOVA, Z.A.; MAKAROVA, T.A.; KATS, G., red.

[Groups of berry bearing shrubs in Moldavia] Kultura  
arbushtilor fruktifer' yn Moldova. Kishineu, Kartia  
Moldoveniaske, 1964. 98 p. [In Moldavian]  
(MIRA 18:5)



L 39557-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JM/CD  
ACC NR: AP6008780 SOURCE CODE: UR/0115/66/000/001/0057/0061

AUTHOR: Orlova, M. P.; Kats, G. A.; Astrov, D. N.; Belyanskiy, L. B.;  
Shibayeva, O. A.; Shubin, V. E.

ORG: none

TITLE: Alloyed germanium for low-temperature thermometry

SOURCE: Izmeritel'naya tekhnika, no. 1, 1966, 57-61

TOPIC TAGS: thermometry, germanium alloy, thermometer

ABSTRACT: The results are reported of an experimental investigation of the galvanomagnetic properties of Ge doped with various amounts of Sb; As; In; Ga; the Ge properties were studied in a range of temperatures from room to liquid helium in order to find out the best impurity and its concentration suitable for low-temperature thermometers. Most measurements were made with Sb-doped Ge

Card 1/2

UDC: 546.289.001.5:536.531

L 39557-66  
ACC NR: AP6008780

whose Nd was  $4.6 \times 10^{16} < Nd < 1 \times 10^{17}$  per  $\text{cm}^3$ ; the resistivity was found to be 0.00042–0.00046 ohm·m at 20–4.2K; acceptor-impurity concentration, Na < 0.1 Nd. A few thermometers were made from Sb-doped Ge (Nd =  $5 \times 10^{16}$  per  $\text{cm}^3$ , K = 6%) for the 40–4.2K range; their resistivity was 0.025–0.027 ohm·m at boiling-helium temperature. The relation  $\lg \rho (1/T)$  was satisfactory for these thermometers only under 7K. A relatively high value of magnetoresistance of doped Ge is noted. Orig. art. has: 4 figures, 4 formulas, and 4 tables.

SUB CODE: 20, 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 016

Card 2/2 HS

KATS, G. B.

"Analysis of Technological Preparation for Serial Production of Instruments and Methods for Its Acceleration." Thesis for degree of Cand. Technical Sci. Sub 24 Nov 49, Moscow Aviation Technological Inst.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernaya Moskva, Jan-Dec 1949.

CHIZH, Yaroslav Semenovich; KATS, G., red.; TELPIS, V., tekhn. red.

[Fattening large groups of swine] Yngresharia unor grupe mar' de porch'. [Otkorm bol'shikh grupp svinei]. Kishineu, Editura de stat "Karia moldoveniaske," 1960. 19 p. [In Moldavian] (MIRA 14:12)  
(Swine)

KALEYEV, F.I.; KATS, G.A.

Mechanized furnace for the heating of a steel strip for  
forging. Kuz.-shtam. proizv. 5 no.9:25-37 S '63.  
(MIRA 16:11)

SOV/28-58-5-4/37

AUTHOR: Tilles, S.A., Candidate of Technical Sciences and Kats, G.B.

TITLE: The Technical-Economic Basis of Standards (Tekhniko-ekonomicheskoye obosnovaniye standartov)

PERIODICAL: Standardizatsiya, 1958, Nr 4, pp 17 - 22 (USSR)

ABSTRACT: The author puts the case for taking into account economic as well as purely technical considerations when planning standards. Examples are quoted and formulae given to show the effect that various economic factors exert on a given standard. There is 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut normalizatsii v mashinostroyenii (All-Union Research Institute for Standardization in Machine Building)

1. Standardization--Economic aspects

Card 1/1

TILLEFS, S.A., kand.tekhn.nauk; KATS, G.B.

Technological and economic substantiation of standards. Standartizatsiia  
22 no.5:17-22 S-0 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut normalizatsii v  
mashinostroyenii.. (Standards, Engineering)